

**MDC/CCL22**  
**Catalog # PVGS1460****Specification**

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**MDC/CCL22 - Product Information**

Primary Accession [O00626-1](#)  
**Species**  
Human

**Sequence**  
Gly25-Gln93, expressed with an N-terminal Met

**Purity**  
> 95% as analyzed by SDS-PAGE

**Endotoxin Level**  
< 0.2 EU/ µg of protein by gel clotting method

**Biological Activity**  
The EC<sub>50</sub> value of human MDC/CCL22(69aa) on Ca<sup>2+</sup> mobilization assay in CHO-K1/Gα15/hCCR4 cells (human Gα15 and human CCR4 stably expressed in CHO-K1 cells) is less than 1.0 µg/ml.

**Expression System**  
E. coli

Formulation **Lyophilized after extensive dialysis against PBS.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O or PBS up to 100 µg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

**MDC/CCL22 - Additional Information**

**Target Background**  
Macrophage-Derived/CCL22 Chemokine (MDC), also known as stimulated T cell chemotactic protein (STCP1), is a CC chemokine initially isolated from clones of monocytoid derived macrophages. CCL22 is one of several Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 16. CCL22 shows chemotactic activity for natural killer cells, chronically activated T lymphocytes, monocytes and dendritic cells. CCL22 has mild chemotactic activity for primary activated T lymphocytes and no chemoattractant activity for neutrophils, eosinophils or resting T lymphocytes. CCL22 may also be involved in certain aspects of activated T lymphocyte physiology, such as trafficking activated T lymphocytes to inflammatory sites. CCL22 interacts with the cell

surface chemokine receptor CCR4.

## **MDC/CCL22 - Protein Information**

## **MDC/CCL22 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **MDC/CCL22 - Images**